



0598  
102

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/074,978  
Source: OIPF  
Date Processed by STIC: 10/24/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
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<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



OIPE

## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:11

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

3 &lt;110&gt; APPLICANT: Leite, Mario

4 Spytek, Kimberly A

5 Guo, Xiaojia (Sasha)

6 Fernandes, Elma

7 Li, Li

8 Kekuda, Ramesh

9 Liu, Xiahong

10 Casman, Stacie

11 Boldog, Ferenc

12 Patturajan, Meera

13 Blalock, Angela

14 Ballinger, Robert

15 Vernet, Corine

16 Tchernev, Velizar T

17 Malyankar, Uriel M

18 Gusev, Vladimir

19 Rastelli, Luca

20 Mezes, Peter S

21 Ellerman, Karen

22 Heyes, Melvin P

23 Herrman, John

24 Pena, Carol E A

25 Shimkets, Richard A

26 Taupier Jr, Raymond J

27 Moore, Noelle

28 Shenoy, Suresh

29 Edinger, Shlomit

30 Gunther, Erik

31 Stone, Dave

32 Millet, Isabelle

OK -&gt; 33 Peyman, John

OK -&gt; 34 Smithson, Glennnda

36 &lt;120&gt; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME

38 &lt;130&gt; FILE REFERENCE: 21402-269

OK -&gt; 40 &lt;140&gt; CURRENT APPLICATION NUMBER: 10/074,978

41 &lt;141&gt; CURRENT FILING DATE: 2002-10-11

43 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/268,221

44 &lt;151&gt; PRIOR FILING DATE: 2001-02-12

46 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/335,109

47 &lt;151&gt; PRIOR FILING DATE: 2001-10-31

49 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/312,284

50 &lt;151&gt; PRIOR FILING DATE: 2001-08-14

52 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/268,496

Does Not Comply  
Corrected Diskette Needed

see pp. 3-4, 6-7

## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:11

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55 <150> PRIOR APPLICATION NUMBER: 60/276,703  
56 <151> PRIOR FILING DATE: 2001-03-16  
58 <150> PRIOR APPLICATION NUMBER: 60/330,293  
59 <151> PRIOR FILING DATE: 2001-10-18  
61 <150> PRIOR APPLICATION NUMBER: 60/322,127  
62 <151> PRIOR FILING DATE: 2001-11-21  
64 <150> PRIOR APPLICATION NUMBER: 60/280,899  
65 <151> PRIOR FILING DATE: 2001-04-02  
67 <150> PRIOR APPLICATION NUMBER: 60/310,797  
68 <151> PRIOR FILING DATE: 2001-08-08  
70 <150> PRIOR APPLICATION NUMBER: 60/268,646  
71 <151> PRIOR FILING DATE: 2001-02-14  
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76 <150> PRIOR APPLICATION NUMBER: 60/268,665  
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79 <150> PRIOR APPLICATION NUMBER: 60/269,530  
80 <151> PRIOR FILING DATE: 2001-02-16  
82 <150> PRIOR APPLICATION NUMBER: 60/269,136  
83 <151> PRIOR FILING DATE: 2001-02-15  
85 <150> PRIOR APPLICATION NUMBER: 60/279,274  
86 <151> PRIOR FILING DATE: 2001-03-28  
88 <150> PRIOR APPLICATION NUMBER: 60/331,772  
89 <151> PRIOR FILING DATE: 2001-11-21  
91 <150> PRIOR APPLICATION NUMBER: 60/322,295  
92 <151> PRIOR FILING DATE: 2001-09-14  
94 <150> PRIOR APPLICATION NUMBER: 60/278,199  
95 <151> PRIOR FILING DATE: 2001-03-23  
97 <150> PRIOR APPLICATION NUMBER: 60/276,405  
98 <151> PRIOR FILING DATE: 2001-03-15  
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106 <150> PRIOR APPLICATION NUMBER: 60/322,294  
107 <151> PRIOR FILING DATE: 2001-09-14  
109 <150> PRIOR APPLICATION NUMBER: 60/335,104  
110 <151> PRIOR FILING DATE: 2001-10-31  
112 <160> NUMBER OF SEQ ID NOS: 547  
114 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

7202 <210> SEQ ID NO: 137  
7203 <211> LENGTH: 125  
7204 <212> TYPE: PRT  
7205 <213> ORGANISM: Homo sapiens

*see p. 3*

## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:12

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

7207 <400> SEQUENCE: 137  
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 7211 Gly Asn Ser Pro Ser Ser Ser Ser Thr Tyr Cys Asn Gln Met Met Arg  
 7212 20 25 30  
 7214 Arg Arg Asn Met Thr Gln Gly Arg Cys Lys Pro Val Asn Thr Phe Val  
 7215 35 40 45  
 7217 His Glu Ser Leu Val Asp Val Gln Asn Val Cys Phe Gln Glu Lys Val  
 7218 50 55 60  
 7220 Thr Cys Lys Asn Gly Gln Gly Asn Cys Tyr Lys Ser Asn Ser Ser Met  
 7221 65 70 75 80  
 7223 His Ile Thr Asp Cys Arg Leu Thr Asn Gly Ser Arg Tyr Pro Asn Cys  
 7224 85 90 95  
 7226 Ala Tyr Arg Thr Ser Pro Lys Glu Arg His Ile Ile Val Ala Cys Glu  
 7227 100 105 110  
 7229 Gly Ser Pro Tyr Val Pro Val His Phe Asp Ala Ser Val  
 7230 115 120 125  
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 16181 <211> LENGTH: 416  
 16182 <212> TYPE: PRT  
 16183 <213> ORGANISM: Canis familiaris  
 16185 <400> SEQUENCE: 270  
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 16187 1 5 10 15  
 16189 Ser Gly Glu His Phe Glu Gly Glu Lys Val Phe Arg Val Asn Val Glu  
 16190 20 25 30  
 16192 Asp Glu Asn His Ile Asn Leu Leu His Thr Leu Ala Ser Thr Thr Gln  
 16193 35 40 45  
 16195 Ile Asp Phe Trp Lys Pro Asp Ser Val Thr Gln Ile Lys Pro His Ser  
 16196 50 55 60  
 16198 Thr Ala Asp Phe Arg Val Lys Ala Glu Asp Ile Leu Thr Val Glu Asp  
 16199 65 70 75 80  
 16201 Phe Leu Lys Gln Asn Glu Leu His Tyr Glu Val Leu Ile Asn Asn Leu  
 16202 85 90 95  
 16204 Arg Leu Val Leu Glu Gly Gln Phe Gly Arg Gln Val Pro Ala Thr Gly  
 16205 100 105 110  
 16207 His Ser Tyr Glu Lys Tyr Asn Arg Trp Glu Thr Ile Glu Ala Trp Thr  
 16208 115 120 125  
 16210 Gln Gln Val Thr Ser Glu Asn Pro Asp Leu Ile Ser Arg Arg Ser Ile  
 16211 130 135 140  
 16213 Gly Thr Thr Phe Glu Gly Arg Thr Ile Tyr Leu Leu Lys Val Gly Lys  
 16214 145 150 155 160  
 16216 Ala Gly Gln Asn Lys Pro Ala Ile Phe Met Asp Cys Gly Phe His Ala  
 16217 165 170 175  
 E--> 16219 Arg Glu Trp Ile Ser Pro Ala Phe Trp Gln Trp Phe Val Arg Glu Xaa  
 16220 180 185 190  
 16222 Ile Arg Thr Tyr Gly Gln Glu Ile His Met Thr Glu Leu Leu Asp Lys  
 16223 195 200 205  
 16225 Leu Asp Phe Tyr Val Leu Pro Val Gly Asn Ile Asp Gly Tyr Val Tyr

*see p.7  
for error  
explanation*

*see p.7*

## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:13

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

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16226      210      215      220
16228 Thr Trp Thr Lys Asn Arg Met Trp Arg Lys Thr Arg Ser Thr Gln Val
16229 225      230      235      240
16231 Gly Thr Asn Cys Val Gly Thr Asp Pro Thr Arg Asn Phe Asp Ala Gly
16232      245      250      255
16234 Trp Cys Lys Ile Gly Ala Ser Arg Asn Pro Cys Asp Glu Thr Tyr Cys
16235      260      265      270
16237 Gly Pro Ala Ala Glu Ser Glu Lys Glu Thr Lys Ala Leu Ala Asn Phe
16238      275      280      285
16240 Ile Arg Ser Asn Leu Ser Ser Ile Lys Ala Tyr Leu Thr Ile His Ser
16241      290      295      300
16243 Tyr Ser Gln Met Met Leu Tyr Pro Tyr Ser Tyr Asp Tyr Lys Leu Thr
16244 305      310      315      320
16246 Glu Asn Asn Ala Glu Leu Asn Ala Leu Ala Lys Ala Thr Val Lys Glu
16247      325      330      335
16249 Leu Ala Thr Leu His Gly Thr Lys Tyr Thr Tyr Gly Pro Gly Ala Thr
16250      340      345      350
16252 Thr Ile Tyr Pro Ala Ala Gly Gly Ser Asp Asp Trp Ala Tyr Asp Gln
16253      355      360      365
16255 Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg Asp Lys Gly Arg Tyr
16256      370      375      380
16258 Gly Phe Ala Leu Pro Glu Ser Gln Ile Ser Pro Thr Cys Glu Glu Thr
16259 385      390      395      400
16261 Leu Leu Ala Ile Lys His Leu Ala Arg Tyr Val Leu Gln His Leu Tyr
16262      405      410      415
18405 <210> SEQ ID NO: 308
18406 <212> TYPE: PRT
18407 <213> ORGANISM: Rattus norvegicus
W--> 18409
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E--> 18409
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19440 <211> LENGTH: 768
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19442 <213> ORGANISM: Mus musculus
19444 <400> SEQUENCE: 331
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19446 1 5 10 15
19448 Glu Glu Val Glu Glu Gly Ala Val Tyr His Val Thr Leu Lys Arg Val
19449 20 25 30
19451 Gln Ile Gln Gln Ala Ala Asn Lys Gly Ala Arg Trp Leu Gly Val Glu
19452 35 40 45
19454 Gly Asp Gln Leu Pro Pro Gly His Thr Val Ser Gln Tyr Glu Thr Cys
19455 50 55 60
19457 Lys Ile Arg Thr Ile Lys Ala Gly Thr Leu Glu Lys Leu Val Glu Asn
19458 65 70 75 80
19460 Leu Leu Thr Ala Phe Gly Asp Asn Asp Phe Thr Tyr Ile Ser Ile Phe
19461 85 90 95
19463 Leu Ser Thr Tyr Arg Gly Phe Ala Ser Thr Lys Glu Val Leu Glu Leu

```

→ <211> mandatory numeric identifier and  
response  
needed

where are amino acids?

p.b

## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:14

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

```

19464          100          105          110
19466 Leu Leu Asp Arg Tyr Gly Asn Leu Thr Ser Pro Asn Cys Glu Glu Asp
19467          115          120          125
19469 Gly Ser Gln Ser Ser Ser Glu Ser Lys Met Val Ile Arg Asn Ala Ile
19470          130          135          140
19472 Ala Ser Ile Leu Arg Ala Trp Leu Asp Gln Cys Ala Glu Asp Phe Arg
19473 145          150          155          160
19475 Glu Pro Pro His Phe Pro Cys Leu Gln Lys Leu Leu Asp Tyr Leu Thr
19476          165          170          175
19478 Arg Met Met Pro Gly Ser Asp Pro Glu Arg Arg Ala Gln Asn Leu Leu
19479          180          185          190
19481 Glu Gln Phe Gln Lys Gln Glu Val Glu Thr Asp Asn Gly Leu Pro Asn
19482          195          200          205
19484 Thr Ile Ser Phe Ser Leu Glu Glu Glu Glu Glu Leu Glu Gly Gly Glu
19485          210          215          220
19487 Ser Ala Glu Phe Thr Cys Phe Ser Glu Asp Leu Val Ala Glu Gln Leu
19488 225          230          235          240
19490 Thr Tyr Met Asp Ala Gln Leu Phe Lys Lys Val Val Pro His His Cys
19491          245          250          255
19493 Leu Gly Cys Ile Trp Ser Arg Arg Asp Lys Lys Glu Asn Lys His Leu
19494          260          265          270
19496 Ala Pro Thr Ile Arg Ala Thr Ile Ser Gln Phe Asn Thr Leu Thr Lys
19497          275          280          285
19499 Cys Val Val Ser Thr Ile Leu Gly Gly Lys Glu Leu Lys Thr Gln Gln
19500          290          295          300
19502 Arg Ala Lys Ile Ile Glu Lys Trp Ile Asn Ile Ala His Glu Cys Arg
19503 305          310          315          320
19505 Leu Leu Lys Asn Phe Ser Ser Leu Arg Ala Ile Val Ser Ala Leu Gln
19506          325          330          335
19508 Ser Asn Ser Ile Tyr Arg Leu Lys Lys Thr Trp Ala Ala Val Pro Arg
19509          340          345          350
19511 Asp Arg Met Leu Met Phe Glu Glu Leu Ser Asp Ile Phe Ser Asp His
19512          355          360          365
19514 Asn Asn His Leu Thr Ser Arg Glu Leu Leu Met Lys Glu Gly Thr Ser
19515          370          375          380
19517 Lys Phe Ala Asn Leu Asp Ser Ser Val Lys Glu Asn Gln Lys Arg Thr
19518 385          390          395          400
19520 Gln Arg Arg Leu Gln Leu Gln Lys Asp Met Gly Val Met Gln Gly Thr
19521          405          410          415
19523 Val Pro Tyr Leu Gly Thr Phe Leu Thr Asp Leu Thr Met Leu Asp Thr
19524          420          425          430
19526 Ala Leu Gln Asp Tyr Ile Glu Gly Gly Leu Ile Asn Phe Glu Lys Arg
19527          435          440          445
19529 Arg Arg Glu Phe Glu Val Ile Ala Gln Ile Lys Leu Leu Gln Ser Ala
19530          450          455          460
19532 Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe Ile Gln Trp Phe
19533 465          470          475          480
19535 Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr Ala Leu Ser Cys
19536          485          490          495

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## RAW SEQUENCE LISTING

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:14

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

```

19538 Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser Pro Lys Pro Arg
19539                      500                      505                      510
19541 Lys Ser Met Val Lys Arg Leu Ser Leu Leu Phe Leu Gly Ser Asp Met
19542                      515                      520                      525
19544 Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys Ser Thr Ala Ser
19545                      530                      535                      540
19547 Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val Ser Ser Cys Glu
19548 545                      550                      555                      560
19550 Ser Asn His Ser Glu Ala Glu Glu Gly Ser Ile Thr Pro Met Asp Thr
19551                      565                      570                      575
19553 Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser Ser Ser Cys Ser
19554                      580                      585                      590
19556 Ser Ile His Ser Met Asp Thr Asn Ser Ser Gly Met Ser Ser Leu Ile
19557                      595                      600                      605
19559 Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn Asn Pro Lys Ile His
19560                      610                      615                      620
19562 Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser Thr Val Leu Pro Pro
19563 625                      630                      635                      640
19565 Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile Ile Arg Ile Ser Val
19566                      645                      650                      655
19568 Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile Met Leu Thr Ser Gln
19569                      660                      665                      670
19571 Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met Leu Lys His Asn Leu
19572                      675                      680                      685
19574 Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val Gln Val Ile Ser Glu
19575                      690                      695                      700
19577 Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn Val Phe Tyr Ala Met
19578 705                      710                      715                      720
19580 Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg Lys Lys Asn Ser Met
19581                      725                      730                      735
19583 Glu Glu Gln Val Lys Leu Arg Ser Arg Thr Ser Leu Thr Leu Pro Arg
19584                      740                      745                      750
E--> 19586 Thr Ala Lys Arg Gly Cys Trp Ser Xaa Arg His Ser Lys Ile Thr Leu
19587                      755                      760                      765

```

*sl*  
*p. 7*

## VARIABLE LOCATION SUMMARY

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:16

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:137; Xaa Pos. 1

Seq#:270; Xaa Pos. 192

Seq#:331; Xaa Pos. 761



## VERIFICATION SUMMARY

DATE: 10/24/2002

PATENT APPLICATION: US/10/074,978

TIME: 14:54:16

Input Set : A:\Cura5691.app

Output Set: N:\CRF4\10242002\J074978.raw

L:33 M:259 W: Allowed number of lines exceeded, 31 <110> Applicant Names  
L:34 M:259 W: Allowed number of lines exceeded, 32 <110> Applicant Names  
L:41 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:7208 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:137 ✓  
L:16219 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:270 ✓  
L:18409 M:282 W: Numeric Field Identifier Missing, <211> is required.  
L:18409 M:301 E: (44) No Sequence Data was Shown, SEQ ID:308  
L:19586 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:331 ✓